

MATERIAL SAFETY DATA SHEET

Date Prepared: March 8, 2004

1. PRODUCT/COMPANY IDENTIFICATION

Product Name:

**Sakrete® All Purpose Sand
Play Sand**

Sakrete® Tube Sand

Sakrete® White Sand

Amstone® Natural Play Sand

Amstone® Traction Sand

Emergency Telephone:

800-424-9300 (Chemtrec) or
703-527-3887 (Outside USA)

Manufacturer's Name & Address:

Bonsal American/an Oldcastle Company
8201 Arrowridge Blvd
Charlotte, NC 28273

Telephone Number for Information:

704-525-1621

2. EMERGENCY AND FIRST AID

EYES:

Immediately flush eye thoroughly with water. Get medical attention if irritation persists.

SKIN:

N/A

INHALATION:

Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside.

INGESTION:

Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician if discomfort is experienced.

3. COMPOSITION INFORMATION

DESCRIPTION:

Crystalline Silica (Quartz)

SiO₂

Silica Sand

CAS #14808-60-7

4. HAZARDOUS INGREDIENTS

COMPONENT

OSHA PEL

ACGIH TLV-TWA

NIOSH REL

Crystalline silica (CAS #14808-60-7)

10 mg of respirable dust/m³
% SiO₂ + 2

0.5 mg respirable
quartz/m³

0.05 mg respirable quartz
dust/m³

5. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

NOTE: Potential health effects may vary depending upon the duration and degree of exposure. To reduce or eliminate health hazards associated with this product, use exposure controls or personal protection methods as described in Section 12.

EYE CONTACT:

(Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea.

INHALATION:

(Chronic) Inhalation exposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung diseases or conditions.

CARCINOGENIC POTENTIAL:

This product contains crystalline silica which IARC classifies as a known human carcinogen (Group I). The NTP, in its ninth Annual Report on Carcinogens, classified "silica, crystalline (respirable)" as a known carcinogen. (See also Sections 4 and 12.)

6. ACCIDENTAL RELEASE MEASURES

Use clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate labeled container for disposal or use. Avoid inhalation of dust and contact with eyes. Use exposure control and personal protection methods as described in Section 12.

7. PHYSICAL/CHEMICAL DATA

APPEARANCE/ODOR:	Gray, odorless	PHYSICAL STATE:	Solid
BOILING POINT:	> 1000°C	MELTING POINT:	> 1000°C
VAPOR PRESSURE:	Not applicable	VAPOR DENSITY:	Not applicable
		SOLUBILITY IN WATER:	Negligible (< 0.1%)
SPECIFIC GRAVITY (H₂O = 1.0):	2.5 2.8	EVAPORATION RATE:	None

8. FIRE AND EXPLOSION

FLASH POINT:	None	LOWER EXPLOSIVE LIMIT:	None
AUTO IGNITION TEMPERATURE:	Not combustible	UPPER EXPLOSIVE LIMIT:	None
FLAMMABLE LIMITS	Not applicable	SPECIAL FIRE FIGHTING PROCEDURES:	None
EXTINGUISHING MEDIA:	Not combustible	UNUSUAL FIRE AND EXPLOSION HAZARDS:	None

**HAZARDOUS
COMBUSTION
PRODUCTS:**

None

9. STABILITY AND REACTIVITY DATA

STABILITY:	Product is stable.
INCOMPATIBILITY:	Reacts with hydrofluoric acid to form volatile corrosive gas, Silicon Tetrafluoride.
HAZARDOUS DECOMPOSITION:	Will not occur.
HAZARDOUS POLYMERIZATION:	Will not occur.

10. PRECAUTIONS FOR HANDLING AND STORAGE

HANDLING AND STORAGE	Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection. Use exposure control and personal protection methods as described in Section 12.
-----------------------------	---

11. TOXICOLOGICAL INFORMATION

See Section 5 for Hazard Identification. No recognized unusual toxicity to plants and animals.

Conditions aggravated by exposure: Eye disease, Skin disorders and Chronic Respiratory conditions.

12. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into the air. If local or general ventilation is not adequate to control dust levels below applicable exposure limits or when dust causes irritation or discomfort, use MSHA/NIOSH approved respirators.
EYE PROTECTION:	Wear safety glasses with side shields or goggles to avoid contact with the eyes. In extremely dusty environments and unpredictable environments, wear tight-fitting unvented or indirectly vented goggles to avoid eye irritation or injury.

13. DISPOSAL CONSIDERATIONS

DISPOSAL:	All disposal methods must be in compliance with all Federal, State/ Provincial and local laws and regulations. Regulations
------------------	--

may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

IF THIS MATERIAL AS PACKAGED, BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA FOR A HAZARDOUS WASTE AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY UNDER THE AUTHORITY OF THE RESOURCE CONSERVATION AND RECOVER ACT (40CFR 261), DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Comply with all applicable local, state and federal regulations for disposal of unusable or contaminated materials.
Dispose of packaging/containers according to local, state and federal regulations.

14. TRANSPORTATION DATA

Sand is not hazardous under U.S. DOT or TDG regulations.

15. OTHER REGULATORY INFORMATION

Status under US OSHA Hazard Communication Rule 29 CFR 1910.1200:

Sand is considered a hazardous chemical under this regulation and should be included in the employer's hazard communication program.

Status under CERCLA/Superfund, 40 CFR 117 and 302:

Not listed.

Hazard Category under SARA (Title III), Sections 311 and 312:

Sand qualifies as a hazardous substance with delayed health effects.

Status under SARA (Title III), Section 313:

Not subject to reporting requirements under Section 313.

Status under California Proposition 65:

This product contains crystalline silica, a substance known to the State of California to cause cancer. This product also may contain trace amounts of heavy metals known to the State of California to cause cancer, birth defects or other reproductive harm.

Status under Canadian Environmental Protection Act:

Not listed.

16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. It is the user's obligation to determine the conditions of safe use of this product.